

What is it? Where is it? Who is doing what?

Nick Fielder
TDEC Emergency Services Coordinator with TEMA
Department of Environment and Conservation
December 10, 2007
Water Resources Technical Advisory Committee

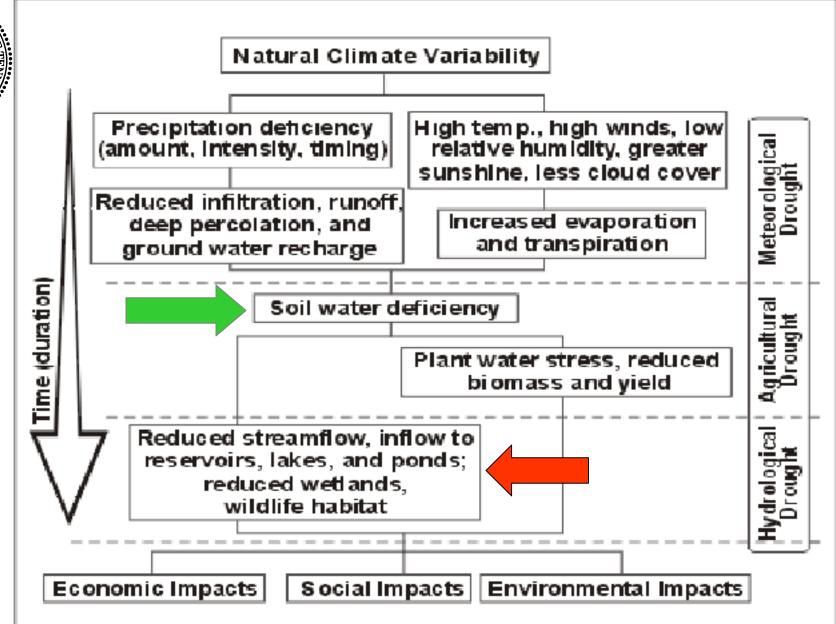




- CONCEPTUAL General terms
- OPERATIONAL Uses measured values

- AGRICULTURAL (Crop & Animal)
- HYDROLOGICAL (Water Resources)
- SOCIO-ECONOMIC (Human Impacts)



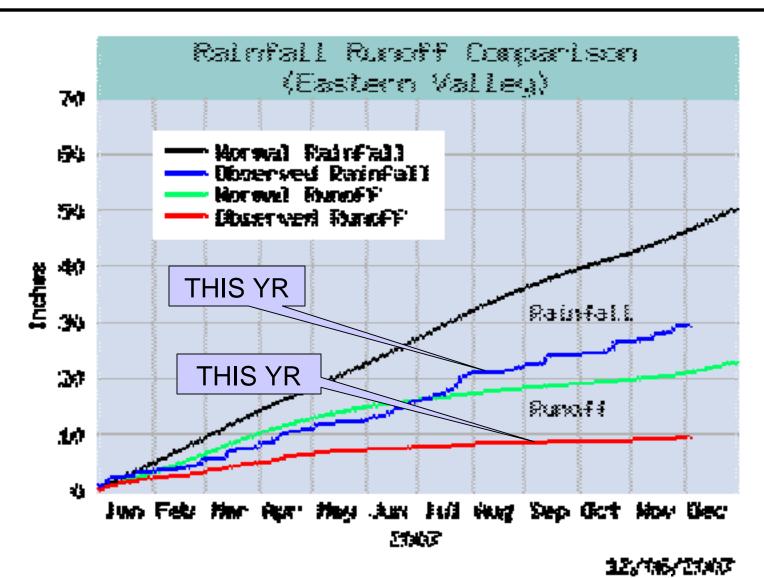




- Combines Indicies and Observations
- Range: D0 through D4
- **D3 EXTREME** Major crop losses; extreme fire danger; widespread water shortages; Palmer Drought Index: 4.0 4.9
- D4 EXCEPTIONAL stream flows 0-2%;
 Palmer Drought Index: < -5.0



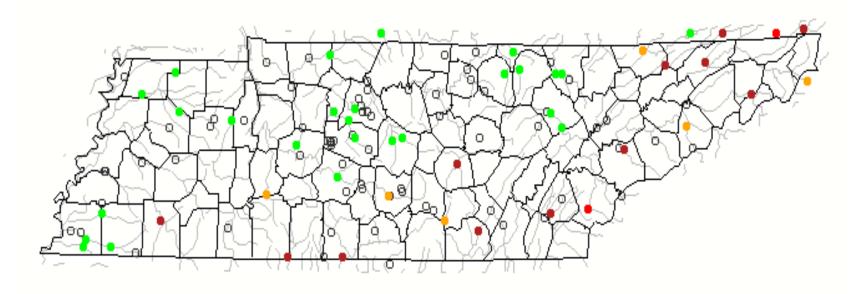
Rainfall and Runoff Comparison





Stream Flows Under Stress

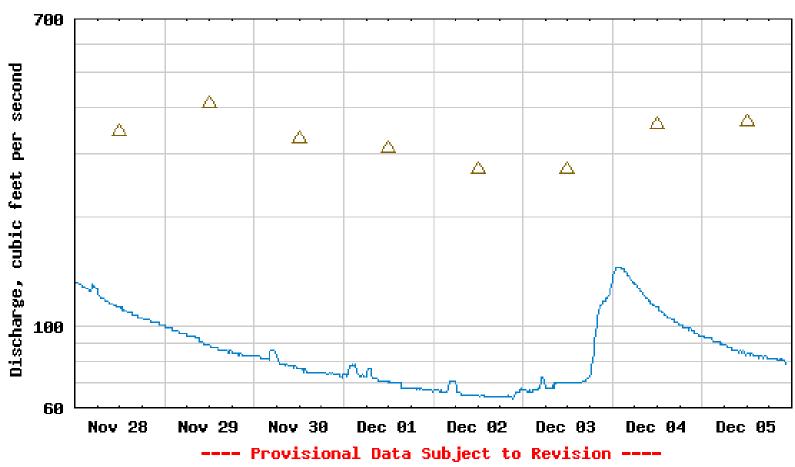
Thursday, November 08, 2007 07:30ET







USGS 03498500 LITTLE RIVER NEAR MARYVILLE, TN



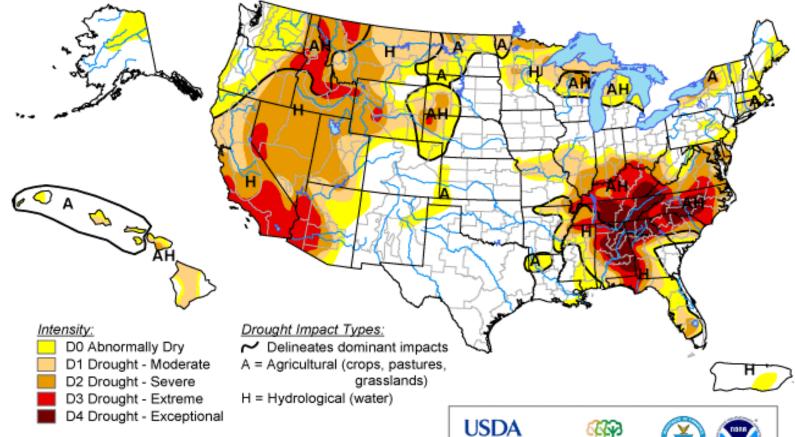
△ Median daily statistic (55 years) — Discharge



U.S. Drought Monitor

October 2, 2007

Valid 8 a.m. EDT



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Released Thursday, October 4, 2007
Author: Jay Lawrimore/Liz Love-Brotak, NOAA/NESDIS/NCDC

http://drought.unl.edu/dm



U.S. Drought Monitor

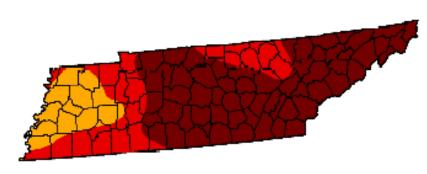
October 9, 2007

Valid 7 a.m. EST

Tennessee

Drought Conditions (Percent Area)

	Drought Conditions (Fercent Area)							
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4		
Current	0.0	100.0	100.0	100.0	85.7	61.3		
Last Week (10/02/2007 map)	0.0	100.0	100.0	100.0	85.7	61.3		
3 Months Ago (07/17/2007 гоар)	0.0	100.0	99.2	93.9	56.6	5.7		
Start of Calendar Year (01/02/2007 map)	37.7	62.3	0.0	0.0	0.0	0.0		
Start of Water Year (10/02/2007 map)	0.0	100.0	100.0	100.0	85.7	61.3		
One Year Ago (10/10/2006 map)	34.7	65.3	0.0	0.0	0.0	0.0		



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements









http://drought.unl.edu/dm

Released Thursday, October 11, 2007

Author: J. Lawrimore/L. Love-Brotak, NOAA/NESDIS/NCDC



U.S. Drought Monitor

November 27, 2007

Valid 7 a.m. EST

Tennessee

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	25.6	74.4	61.8	54.5	46.6	16.5
Last Week (11/20/2007 map)	17.7	82.3	66.3	61.2	50.3	23.9
3 Months Ago (09/04/2007 map)	0.0	100.0	100.0	100.0	99.1	62.2
Start of Calendar Year (01/02/2007 map)	37.7	62.3	0.0	0.0	0.0	0.0
Start of Water Year (10/02/2007 map)	0.0	100.0	100.0	100.0	85.7	61.3
One Year Ago (11/28/2006 map)	100.0	0.0	0.0	0.0	0.0	0.0



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

http://drought.unl.edu/dm









Released Thursday, November 29, 2007 Author: Brad Rippey, U.S. Department of Agriculture



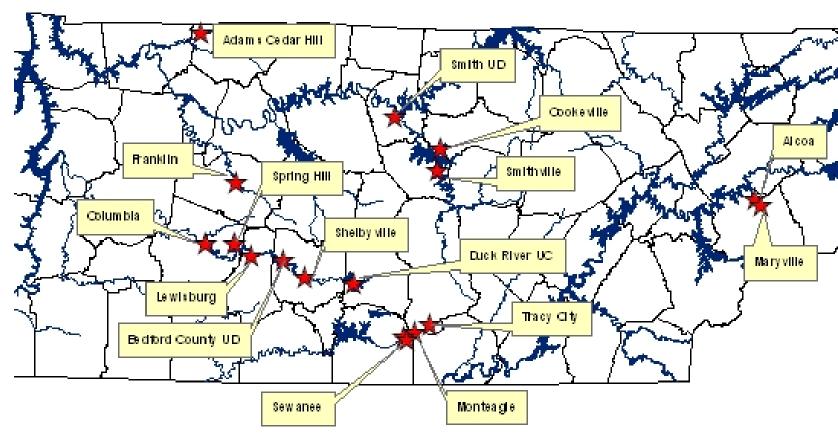
Drought Task Force

- TDEC
- Agriculture
- TWRA
- ECD
- TEMA
- Tennessee Association of Utility Districts

- TVA
- NOAA National
 Weather Service
- U.S. Corps OF Engineers
- U.S. Fish and Wildlife Service
- U.S. EPA



Drought Impact Issues





Lake Laurel at Monteagle





Intake at Lake Laurel



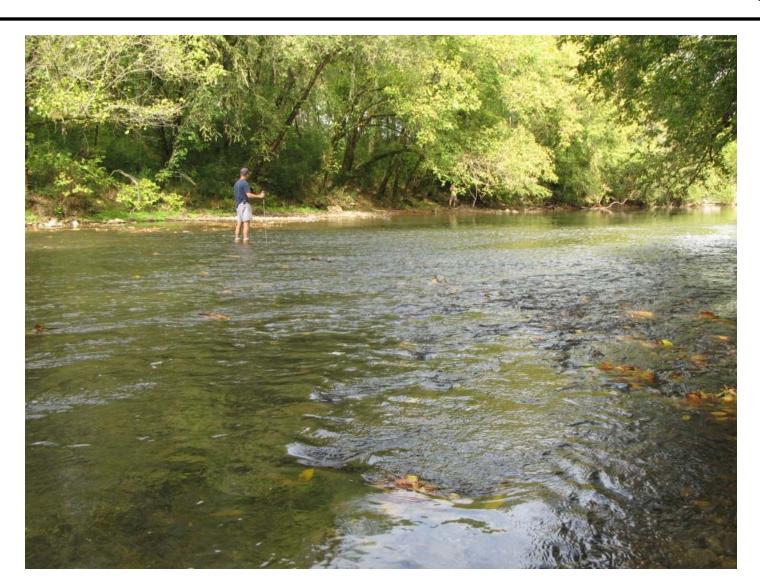


Lake at Tracy City



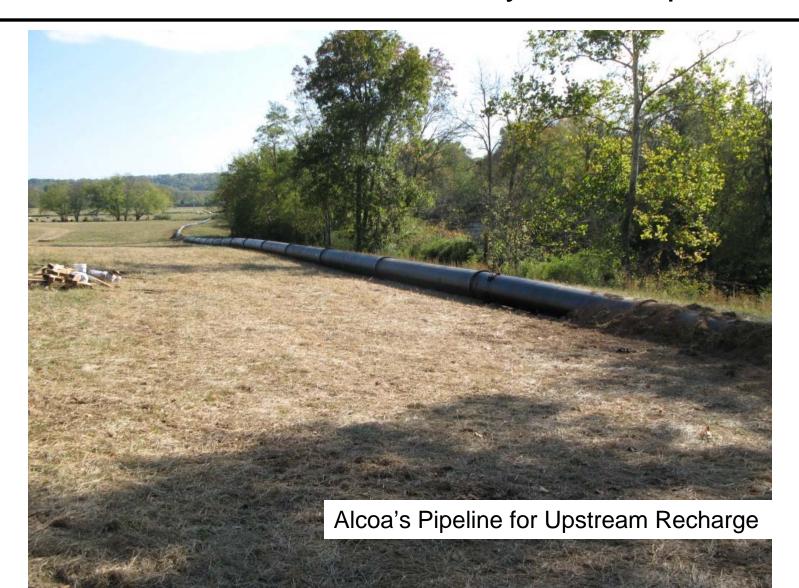


Little River in Blount County

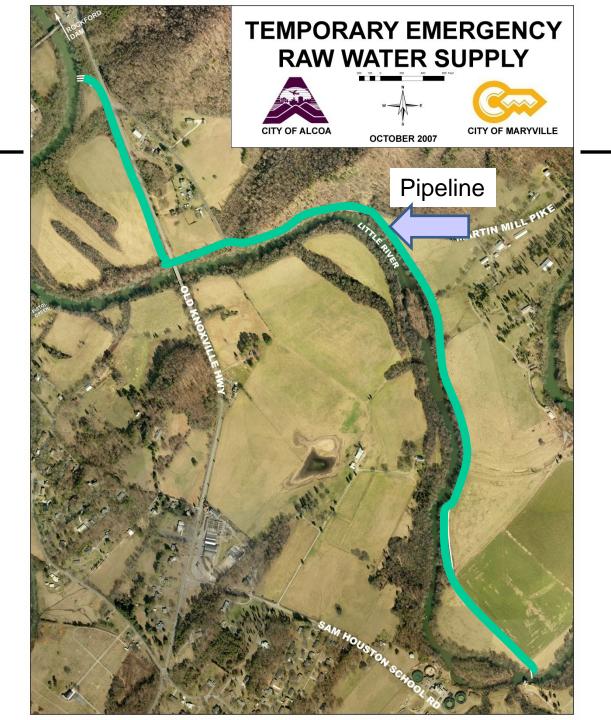




Result of Alcoa and Maryville Cooperation









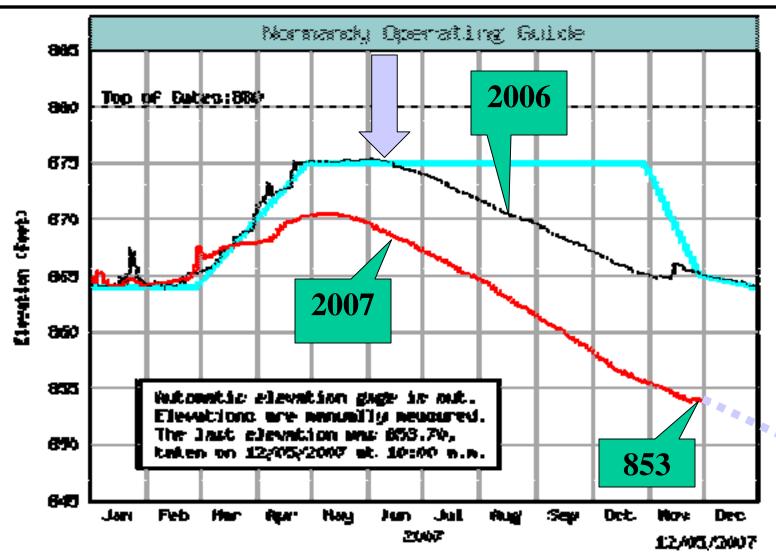
Normandy Reservoir & the Duck River

NORMANDY DAM



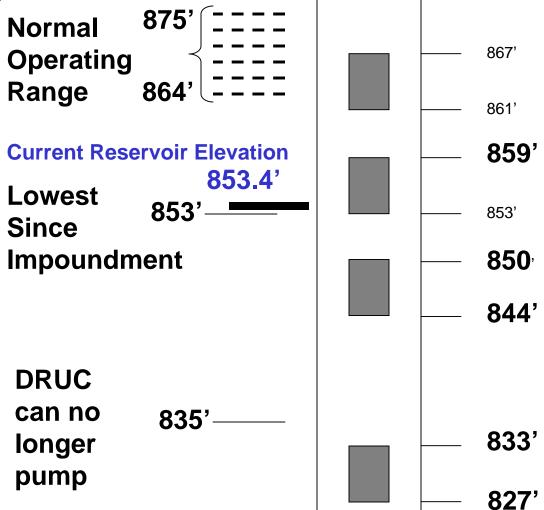


Normandy Reservoir & the Duck River





Normandy Reservoir Elevations & DRUC Intakes





Normandy Dam Stakeholders Meeting





Hoping for rain is not a good plan.

Nick Fielder
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